

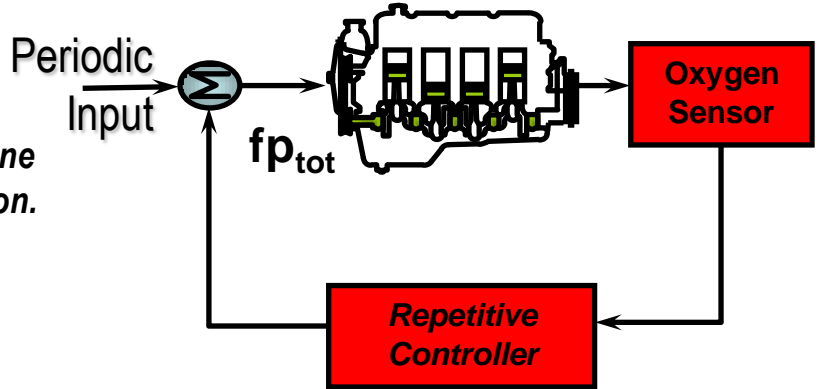
Data Driven Controller Identification

Research Summary:

Demonstrated is the use of data for the purpose of **controller identification** as opposed to controller design. **The objective is to identify controllers using nonparametric and parametric modeling techniques.** The control solution reveals controller structure and calibration in a systematic design process that can be executed in a desktop environment.

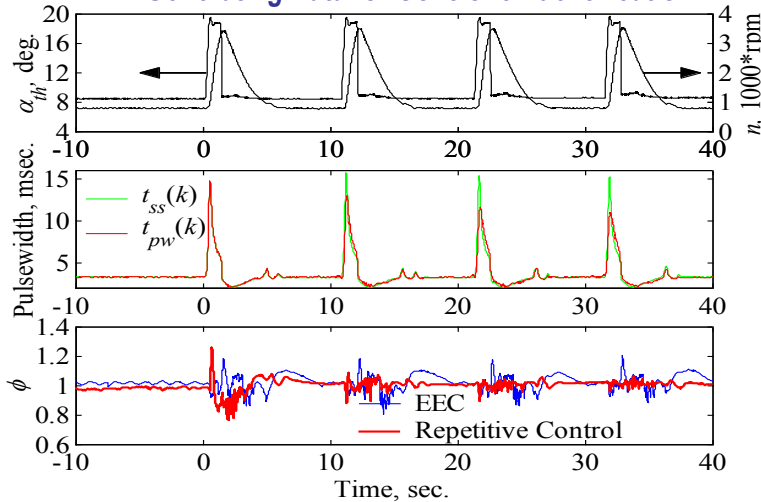
Controller Architecture

Input is used to generate engine data for controller identification.

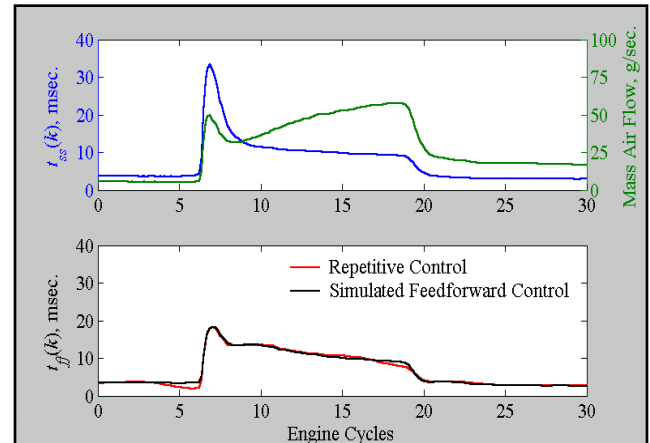


Results

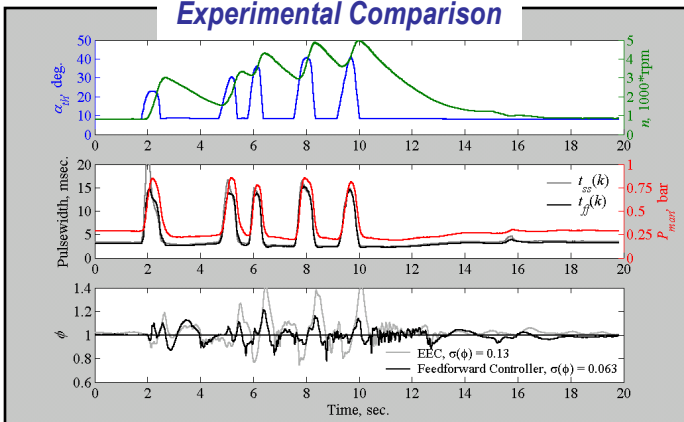
Generating Data for Controller Identification



Identified Controller Response



Experimental Comparison



Temperature Scheduled Controller

